

AS 2596:2022



Seat belt assemblies for motor vehicles (United Nations Economic Commission for Europe (UNECE), UN Regulation No. 16:2020 (Rev. 10) MOD)



AS 2596:2022

This Australian Standard ® was prepared by CS-075, Seat Belts for Use in Motor Vehicles. It was approved on behalf of the Council of Standards Australia on 8 June 2022.

This Standard was published on 24 June 2022.

The following are represented on Committee CS-075:

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- Australasian New Car Assessment Program
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- Australian Chamber of Commerce and Industry
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This Standard was issued in draft form for comment as DR AS 2596:2021.

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ISBN 978 1 76113 841 6

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Originated as AS/NZS 2596:1995.
Previous edition 2003.
Revised and redesignated as AS 2596:2022.

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Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CS-075, Seat Belts for Use in Motor Vehicles to supersede AS/NZS 2596:2003, *Seat belt assemblies for motor vehicles (ECE Regulation No. 16, MOD)*.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this document as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this document is to provide minimum performance requirements for seat belt assemblies and part assemblies to promote the provision of a high level of protection for adults and larger children travelling in motor vehicles.

This document is an adoption with national modifications and has been reproduced from United Nations Economic Commission for Europe (UNECE), UN Regulation No. 16:2020 (Rev. 10), *Uniform provisions concerning the approval of (i) safety-belts, restraint systems, child restraint systems and ISOFIX child restraint systems for occupants of power-driven vehicles and (ii) vehicles equipped with safety belts, safety belt reminders, restraint systems, child restraint systems and ISOFIX child restraint systems and i-size child restraint systems* and its Amendments 1 and 2 (2021), which have been added at the end of the source text after Annex 18.

The modifications are additional requirements and are set out in [Appendices ZZ](#) to [ZG](#), which have been added at the end of the source text after Amendment 2.

[Appendix ZZ](#) lists the variations to UN Regulation No. 16:2020 (Rev. 10) for the application of this document in Australia. [Appendices ZA](#) to [ZG](#) set out the following:

- (a) [Appendix ZA](#) — Instructions.
- (b) [Appendix ZB](#) — Order of tests.
- (c) [Appendix ZC](#) — Recommendations for anchoring of seat belt assemblies.
- (d) [Appendix ZD](#) — Product conformity.
- (e) [Appendix ZE](#) — Safety-belt installation matrix.
- (f) [Appendix ZF](#) — Determination of the minimum length of a seat belt.
- (g) [Appendix ZG](#) — Bibliography.

As this document has been reproduced from a UN Regulation, the following applies:

- (i) In the source text, “this Regulation” should read “this document”.
- (ii) Where a number follows the word “Regulation”, in referring to another document, insert “UN” before the word “Regulation”.
- (iii) In the source text, “paragraph” should read “clause”.
- (iv) Where units are shown as daN, the value should be multiplied by 10 and the unit expressed as newtons (N).
- (v) In the source text, “strap” should read “webbing”.
- (vi) For the purposes of this document, Annexes 10 and 18 are “normative” and Annexes 3, 4, 5, 6 and 7 are “informative”.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

Contents

Regulation

1.	Scope.....	1
2.	Definitions	1
3.	Application for approval	7
4.	Markings	8
5.	Approval.....	9
6.	Specifications	10
7.	Tests	18
8.	Requirements concerning the installation in the vehicle	27
9.	Conformity of production.....	36
10.	Penalties for non-conformity of production	36
11.	Modifications and extension of approval of the vehicle type or safety-belt or restraint system type.....	37
12.	Production definitively discontinued.....	37
13.	Instructions.....	37
14.	Names and addresses of Technical Services responsible for conducting approval tests, and of Type Approval Authorities.....	38
15.	Transitional provisions.....	38

Annexes

1A	Communication concerning the approval or extension or refusal or withdrawal of approval or production definitively discontinued of a vehicle type with regard to safety-belt pursuant to UN Regulation No. 16.....	42
1B	Communication concerning the approval or extension or refusal or withdrawal of approval or production definitively discontinued of a type of safety-belt or restraint system for adult occupants of power-driven vehicles pursuant to UN Regulation No. 16	44
2	Arrangements of the approval marks	46
3	Diagram of an apparatus to test durability of retractor mechanism.....	51
4	Diagram of an apparatus to test locking of emergency locking retractors	52
5	Diagram of an apparatus for dust-resistance test.....	53
6	Description of trolley, seat, anchorages and stopping device.....	54
7	Description of manikin.....	60
8	Description of curve of trolley's deceleration or acceleration as a function of time.....	68
9	Instructions.....	69
10	Dual buckle test.....	71
11	Abrasion and micro-slip test	72
12	Corrosion test	75
13	Order of tests	77
14	Control of conformity of production	79

15	Procedure for determining the "H" point and the actual torso angle for seating positions in motor vehicles	82
	Appendix 1: Description of the three dimensional "H" point machine	82
	Appendix 2: Three-dimensional reference system	82
	Appendix 3: Reference data concerning seating positions	82
16	Safety-belt installation showing the belt types and retractor types	83
17	Requirements for the installation of safety-belts and restraint systems for adult occupants of power-driven vehicles on forward facing seats, for the installation of ISOFIX child restraint systems and i-size child restraint systems	84
	Appendix 1: Provisions concerning the installation of "universal" category child restraint systems installed with the safety-belt equipment of the vehicle	85
	Appendix 2: Provisions concerning the installation of forward-facing and rearward-facing ISOFIX child restraint systems of universal and semi-universal categories installed on ISOFIX or i-Size positions	88
	Appendix 3: Example of detailed information e.g. for child restraint system manufacturers	100
	Appendix 4: Installation of 10-year manikin.....	101
	Appendix 5: Provisions concerning the installation of forward-facing booster seat child restraint systems of i-Size and specific categories installed on vehicle seating positions or i-Size seating positions.....	102
18	Safety-belt reminder tests.....	106
	Amendment 1	109
	Amendment 2	110
	Appendix ZZ (normative) Variations to UN Regulation No. 16:2020 (Rev. 10) for Australia	111
	Appendix ZA (normative) Instructions	117
	Appendix ZB (normative) Order of tests	120
	Appendix ZC (informative) Recommendations for anchoring of seat belt assemblies	123
	Appendix ZD (normative) Product conformity	124
	Appendix ZE (informative) Safety-belt installation matrix	127
	Appendix ZF (normative) Determination of the minimum length of a seat belt	129
	Appendix ZG (informative) Bibliography	132

Australian Standard

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1. Scope

This Regulation applies to:

- 1.1. Vehicles of category M, N, O, L₂, L₄, L₅, L₆, L₇ and T¹), with regard to the installation of safety-belts and restraint systems which are intended for separate use, i.e. as individual fittings, by persons of adult build occupying forward-facing, rearward-facing and side-facing seats;
- 1.2. Safety-belts and restraint systems which are intended for separate use, i.e. as individual fittings, by persons of adult build occupying forward-facing, rearward-facing and side-facing seats, and are designed for installation in vehicles of category M, N, O, L₂, L₄, L₅, L₆, L₇ and T¹);
- 1.3. Vehicles of category M₁ and N₁¹ with regard to the installation of child restraint systems and ISOFIX child restraint systems.
- 1.4. All seating positions in vehicle categories M and N fitted with safety belt with regard to safety belt reminder.
- 1.5. At the request of the manufacturer, it also applies to the installation of child restraint systems and ISOFIX child restraint systems designated for installation in vehicles of categories M₂ and M₃.¹
- 1.6. At the request of the manufacturer, it also applies to safety-belts designated for installation on side-facing seats in vehicles of category M₃ (Class II, III or B¹).
- 1.7. At the request of the manufacturer, it also applies to installing i-Size child restraint systems, in case i-Size seating positions are defined by the vehicle manufacturer.

2. Definitions

- 2.1. Safety-belt (seat-belt, belt)

An arrangement of straps with a securing buckle, adjusting devices and attachments which is capable of being anchored to the interior of a power-driven vehicle and is designed to diminish the risk of injury to its wearer, in the event of collision or of abrupt deceleration of the vehicle, by limiting the mobility of the wearer's body. Such an arrangement is generally referred to as a "belt assembly", which term also embraces any device for absorbing energy or for retracting the belt.

The arrangement can be tested and approved as a safety-belt arrangement or as a restraint system.

- 2.1.1. Lap belt

A two-point belt which passes across the front of the wearer's pelvic region.

¹ As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3), document ECE/TRANS/WP.29/78/Rev.6, para. 2 - www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html